



BEST AVAILABLE COPY
BEST AVAILABLE COPY

(19)

(11) Publication number: **11032768 A**

Generated Document.

PATENT ABSTRACTS OF JAPAN

(51) Intl. Cl.: **C12N 15/09 A61K 38/55 A61K 38/55 A61K 39/395 A61K 48/00 C07K 7/00 C07K 16/40 C12N 9/64**

(21) Application number: **09191319**

(22) Application date: **16.07.97**

<p>(30) Priority:</p> <p>(43) Date of application publication: 09.02.99</p> <p>(84) Designated contracting states:</p>	<p>(71) Applicant: ONO PHARMACEUT CO LTD</p> <p>(72) Inventor: KIDO HIROSHI INOUE MASAHIRO</p> <p>(74) Representative:</p>
---	--

(54) **NEW ACIDOCYTE SERINE PROTEASE**

(57) Abstract:

PROBLEM TO BE SOLVED: To obtain the subject new enzyme useful for screening a serine protease inhibitor, diagnosing allergic diseases, infectious diseases, neoplastic diseases, collagen diseases, etc., comprising an acidocyte serine protease shown by a specific amino acid sequence.

SOLUTION: This new polypeptide is an acidocyte serine protease composed of an amino acid sequence shown by the formula in a substantially pure form, its homolog, its fragment or the homolog of the fragment and is useful for a method for screening a serine protease inhibitor and for diagnosing diseases such as allergic diseases, infectious diseases, neoplastic diseases, granulomatous diseases, collagen diseases, angiitis, etc. This serine protease is obtained by extracting the whole RNA from the blood of a patient of eosinophilic leucocytosis, cloning the RNA by RT-PCR to give a cDNA encoding a serine protease, linking the serine protease to a vector, inserting the vector into Escherichia coli and culturing the prepared transformant.

```

Net Gly Ala Arg Gly Ala Leu Leu Leu Ala Leu Leu Ala Arg Ala
-26 -25                               -20                               -15
Gly Leu Arg Lys Pro Glu Ser Gln Glu Ala Ala Pro Leu Ser Gly Pro
-10                               -5                               1                               5
Cys Gly Arg Arg Val Ile Thr Ser Arg Ile Val Gly Gly Glu Asp Ala
                               10                               15                               20
                               |                               |
                               |                               |
                               |                               |
Asn Ile Ser His His Phe Glu Trp Ile Gln Lys Leu Met Ala Gln Ser
                               250                               255                               260
Gly Met Ser Glu Pro Asp Pro Ser Trp Pro Leu Leu Phe Phe Pro Leu
                               265                               270                               275
Leu Trp Ala Leu Pro Leu Leu Gly Pro Val
                               280                               285

```